Town of Edge woon

15T Quarter Report 2014 for

WWTP

To: KAY DAVIS

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Meter reads - Edgewood WWTP DP- 1654

	Utility water	Truck	Lagoon	Effleunt	Perm mete	Infleunt	meter
12/31/2013	1281319				21733826		19064629
1/31/2014	1300548				22371792		19654617
Totals	19229		618737	637966		589988	
Day/Avg	620.3		19959	20579.5		19032	
1/31/2014	1300548				22371792		19654617
2/28/2014					22858224		20109506
Totals	43170		443262	486432		454889	
Day/Avg	1541.8		15831	17372.5		16246	
2/28/2014	1343718				22858224		20109506
3/31/2014	1382875				23406177		20659153
Totals	39157		508796	547953		549647	
Day/Avg	1263		16413	17676		17731	
				· · · · · · · · · · · · · · · · · · ·			

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## Solids removal - Edgewood WWTP DP - 1654

 January
 9297
 February
 3663

 March
 0
 April

 May
 June
 June

 July
 August
 October

 November
 December
 December

This is gallons that have went to Belt Press

We have had some issues with our MLSS.

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Turbidity reads- Edgewood WWTP DP-1654

	Jan	Feb	March
1			7 0.8
2			4 0.2
3	0.4		0.6
4	0.4	0.4	0.6
5	0.4	0.4	
6	0.4	0.4	0.3
7	0.6	0.5	
8	0.8	0.7	
9	0.7	0.5	
10	0.7	0.8	
11	0.7	0.7	
12	0.3	0.7	
13	0.4	0.6	
14	0.4	0.6	
15	0.4	0.6	0.6
16	0.4	0.6	0.3
17	0.4	0.6	0.6
18	0.4	0.9	0.6
19	0.4	0.3	0.6
20	0.4	0.8	0.6
21	0.4	0.3	0.6
22	0.4	0.5	0.6
23	0.4	0.4	0.7
24	0.4	0.4	0.8
25	0.4	0.4	0.3
26	0.4	0.4	0.3
27	0.4	0.4	0.3
28	0.4	0.4	0.4
29	0.4		0.4
30	0.4		0.4
31	0.4		0.4
<u></u>			

Lab Order 1312991

Date Reported: 1/8/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Edgewood WWTP

Lab ID: 1312991-002

Project:

Client Sample ID: Influent

Collection Date: 12/20/2013 10:45:00 AM

Received Date: 12/20/2013 11:25:00 AM

Analyses	Result	RL Qual Units	DF Date Analyzed	Batch
SM5210B: BOD			Anal	yst: SUB
Biochemical Oxygen Demand	780	5.0 H mg/L	1 1/2/2014	R15936

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

- Not Detected at the Reporting Limit Page 2 of 9 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit



Lab Order 1312991

Date Reported: 1/8/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1312991-001

Client Sample ID: Effluent

Collection Date: 12/20/2013 10:45:00 AM

Received Date: 12/20/2013 11:25:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	410	25	mg/L	50	12/27/2013 9:13:21 PI	A R15790
Nitrogen, Nitrate (As N)	3.6	0.50	mg/L	5	12/20/2013 6:10:17 Pt	A R15735
SM5210B: BOD					Analys	t: SUB
Biochemical Oxygen Demand	ND	5.0	mg/L	1	12/26/2014	R15936
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analys	t: KS
Total Dissolved Solids	1300	20.0	* mg/L	1	12/26/2013 11:29:00 A	M 10975
SM 4500 NORG C: TKN					Analys	t: TMG
Nitrogen, Kjeldahl, Total	2.0	1.0	mg/L	1	1/6/2014 9:15:00 AM	11049

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 1 of 9
  Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

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Lab Order 1401255

Date Reported: 1/17/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP Collection Date: 1/8/2014 10:00:00 AM

Lab ID: 1401255-001

Matrix: AQUEOUS Received Date: 1/8/2014 12:21:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Anal	yst: SMS
Biochemical Oxygen Demand	11	2.0	mg/L	1	1/14/2014 11:05:00	AM 11150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- Not Detected at the Reporting Limit
  Page 1 of 3
  Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

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Lab Order 1401255

Date Reported: 1/17/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1401255-002

Client Sample ID: Influent

Collection Date: 1/8/2014 10:00:00 AM

Received Date: 1/8/2014 12:21:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
SM5210B: BOD				Ar	alyst: SMS
Biochemical Oxygen Demand	690	2.0	mg/L	1 1/14/2014 11:05:0	00 AM 11150

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 2 of 3
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit



Lab Order 1401839

Date Reported: 1/30/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Edgewood WWTP

Lab ID: 1401839-001

Project:

Client Sample ID: Effluent

Collection Date: 1/21/2014 12:45:00 PM Received Date: 1/21/2014 1:46:00 PM

Analyses	Result	RL Qu	al Units	DF Date Analyzed		Batch
SM5210B: BOD					Anal	yst: <b>SMS</b>
Biochemical Oxygen Demand	ND	2.0	mg/L	1	1/27/2014 10:08:00	AM 11340

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit



Lab Order 1401839

Date Reported: 1/30/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 1/21/2014 12:45:00 PM

Lab ID: 1401839-002

Matrix: AQUEOUS

Received Date: 1/21/2014 1:46:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Analy	yst: <b>SMS</b>
Biochemical Oxygen Demand	660	2.0	mg/L	1	1/27/2014 10:08:00	AM 11340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 4

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Lab Order 1402032

Date Reported: 2/12/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Edgewood WWTP

Lab ID: 1402032-002

Project:

Client Sample ID: Effluent

**Collection Date: 2/3/2014 10:15:00 AM** 

Matrix: AQUEOUS Received Date: 2/3/2014 12:47:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Anal	yst: SMS
Biochemical Oxygen Demand	43	2.0	mg/L	1	2/10/2014 11:09:00	AM 11568

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- P Sample pH greater than 2.
- RL Reporting Detection Limit



Lab Order 1402032

Date Reported: 2/12/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1402032-001

Client Sample ID: Influent

**Collection Date:** 2/3/2014 10:15:00 AM **Received Date:** 2/3/2014 12:47:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
SM5210B: BOD					Analy	yst: SMS
Biochemical Oxygen Demand	440	2.0	mg/L	1	2/10/2014 11:09:00 /	AM 11568
SM2540C MOD: TOTAL DISSOLVE	ED SOLIDS				Analy	yst: <b>KS</b>
Total Dissolved Solids	1280	40.0	* mg/L	1	2/7/2014 4:08:00 PM	11596

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 4

- P Sample pH greater than 2.
- RL Reporting Detection Limit



Lab Order 1402394

Date Reported: 2/20/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Edgewood WWTP

Lab ID: 1402394-001

Project:

Client Sample ID: Effluent

**Collection Date: 2/11/2014 10:45:00 AM** 

Received Date: 2/11/2014 12:35:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Nitrogen, Nitrate (As N)	1.4	0.50	mg/L	5	2/11/2014 8:40:28 PM	R16694
EPA METHOD 200.7: DISSOLVED I	METALS				Analys	t: JLF
Calcium	190	5.0	mg/L	5	2/12/2014 2:51:39 PM	R16708
Magnesium	29	1.0	mg/L	1	2/12/2014 2:49:45 PM	R16708
SM2340B: HARDNESS					Analys	t: JLF
Hardness (As CaCO3)	600	6.6	mg/L	1	2/12/2014 12:25:00 PM	R16708
SM4500-H+B: PH					Analys	t: JML
рН	7.98	· 1.68 H	l pH units	1	2/11/2014 7:25:19 PM	R16704
SM2320B: ALKALINITY					Analyst	: JML
Bicarbonate (As CaCO3)	500	20	mg/L CaCO3	1	2/11/2014 7:25:19 PM	R16704
Carbonate (As CaCO3)	ND	2.0	mg/L CaCO3	1	2/11/2014 7:25:19 PM	R16704
Total Alkalinity (as CaCO3)	500	20	mg/L CaCO3	1	2/11/2014 7:25:19 PM	R16704
SM 4500 NORG C: TKN					Analyst	: TMG
Nitrogen, Kjeldahl, Total	1.1	1.0	mg/L	1	2/19/2014 6:10:00 AM	11780

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit



Lab Order 1403087

Date Reported: 3/13/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1403087-002

Client Sample ID: Influent

Collection Date: 3/4/2014 11:00:00 AM

Received Date: 3/4/2014 12:33:00 PM

Analyses	Result	RL Qu	al Units	•	DF Date Ana	ilyzed	Batch
SM5210B: BOD		•			2.32.000	Analy	st: SMS
Biochemical Oxygen Demand	370	2.0	mg/L		1 3/10/2014	11:30:00 A	M 12027

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403087

Date Reported: 3/13/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1403087-003

Client Sample ID: Effluent

Collection Date: 3/4/2014 11:00:00 AM

Received Date: 3/4/2014 12:33:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Analy	st: SMS
Biochemical Oxygen Demand	55	2.0	mg/L	1	3/10/2014 11:30:00 A	M 12027

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDIimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 5

- P Sample pH greater than 2.
- RL Reporting Detection Limit



Lab Order 1403315

Date Reported: 3/18/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1403315-001

Client Sample ID: Influent

Collection Date: 3/10/2014 11:15:00 AM Received Date: 3/10/2014 12:43:00 PM

Analyses Result **RL Qual Units DF** Date Analyzed Batch SM5210B: BOD Analyst: SMS Biochemical Oxygen Demand 750 2.0 mg/L 1 3/17/2014 9:53:00 AM 12140 **EPA METHOD 8260B: VOLATILES** Analyst: cadg ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 Toluene 1.0 1.0 3/12/2014 11:58:53 AM R17267 μg/L Ethylbenzene ND 1.0 3/12/2014 11:58:53 AM R17267 μg/L Methyl tert-butyl ether (MTBE) ND 1.0 µg/L 3/12/2014 11:58:53 AM R17267 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 3/12/2014 11:58:53 AM R17267 1,3,5-Trimethylbenzene µg/L ND 1.0 3/12/2014 11:58:53 AM R17267 1,2-Dichloroethane (EDC) ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 1,2-Dibromoethane (EDB) ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 Naphthalene ND 2.0 µq/L 1 3/12/2014 11:58:53 AM R17267 1-Methylnaphthalene ND 4.0 μg/L 1 3/12/2014 11:58:53 AM R17267 2-Methylnaphthalene ND 4.0 3/12/2014 11:58:53 AM R17267 μg/L Acetone 12 10 µg/L 3/12/2014 11:58:53 AM R17267 Bromobenzene ND 1.0 µg/L 3/12/2014 11:58:53 AM R17267 Bromodichloromethane ND 1.0 µg/L 1 3/12/2014 11:58:53 AM R17267 Bromoform ND 1.0 μg/L 1 3/12/2014 11:58:53 AM R17267 Bromomethane ND 3.0 3/12/2014 11:58:53 AM R17267 µg/L 1 2-Butanone ND 10 3/12/2014 11:58:53 AM R17267 µg/L 1 Carbon disulfide ND 10 µg/L 1 3/12/2014 11:58:53 AM R17267 Carbon Tetrachloride ND 1.0 µg/L 3/12/2014 11:58:53 AM R17267 Chlorobenzene ND 1.0 µg/L 3/12/2014 11:58:53 AM R17267 Chloroethane ND 2.0 μg/L 3/12/2014 11:58:53 AM R17267 Chloroform ND 1.0 µg/L 1 3/12/2014 11:58:53 AM R17267 Chloromethane ND 3.0 µg/L 3/12/2014 11:58:53 AM R17267 2-Chiorotoluene ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 4-Chlorotoluene ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 cis-1,2-DCE ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 cis-1,3-Dichloropropene ND 1.0 μg/L 3/12/2014 11:58:53 AM R17267 1,2-Dibromo-3-chloropropane ND 2.0 μg/L 3/12/2014 11:58:53 AM R17267 Dibromochloromethane ND 1.0 µg/L 3/12/2014 11:58:53 AM R17267 Dibromomethane ND 1.0 3/12/2014 11:58:53 AM R17267 μg/L 1,2-Dichlorobenzene ND 1.0 μg/L 1 3/12/2014 11:58:53 AM R17267

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

10

1.0

1.0

1.0

1.0

1.0

μg/L

µg/L

µg/L

μg/L

µg/L

µg/L

ND

ND

ND

ND

ND

ND

#### Qualifiers:

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dichloropropane

Dichlorodifluoromethane

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

1

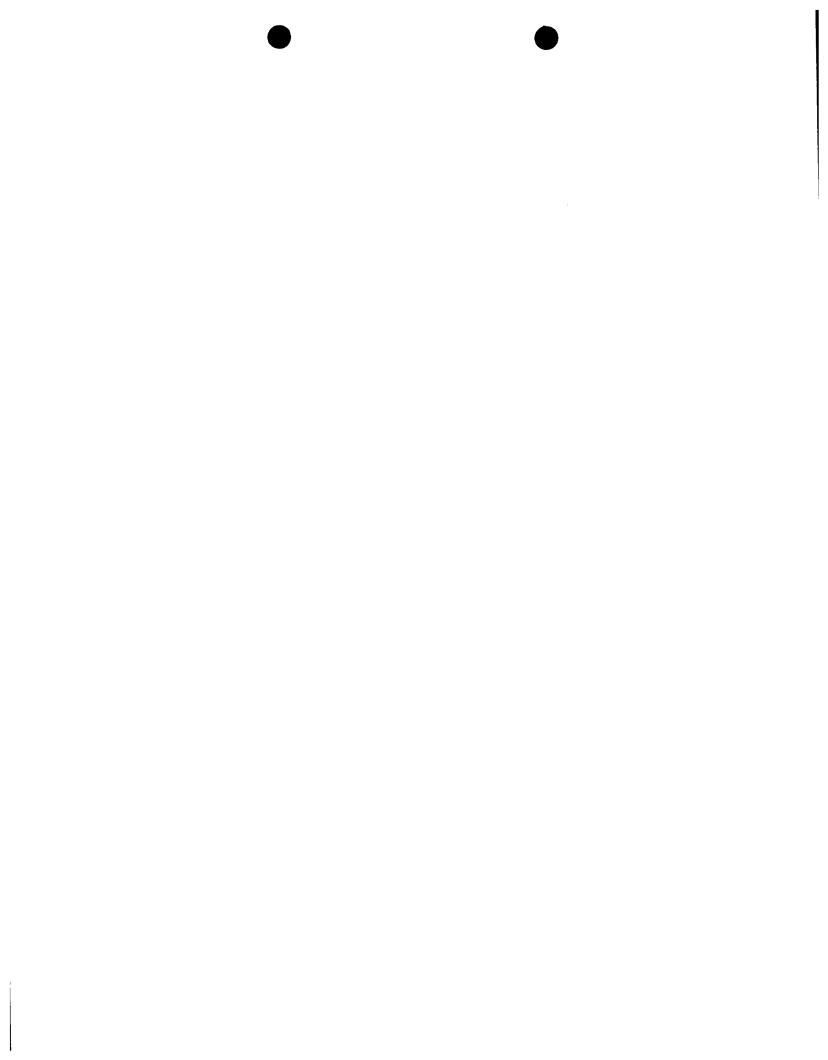
1

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 7

3/12/2014 11:58:53 AM R17267

- P Sample pH greater than 2.
- RL Reporting Detection Limit



Lab Order 1403315

Date Reported: 3/18/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1403315-002

Client Sample ID: Effluent

Collection Date: 3/10/2014 11:15:00 AM

Matrix: AQUEOUS Received Date: 3/10/2014 12:43:00 PM

Analyses	Result	RL Qu	al Units	. DF	Date Analyzed	Batch
SM5210B: BOD					Anal	vst: SMS
Biochemical Oxygen Demand	56	2.0	mg/L	1	3/17/2014 9:53:00 A	M 12140

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403778

Date Reported: 3/27/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1403778-002

Client Sample ID: Influent

Collection Date: 3/18/2014 12:30:00 PM

Matrix: AQUEOUS Received Date: 3/18/2014 1:37:00 PM

Analyses	Result	RL Qu	al Units	DF Date An	alyzed	Batch
SM5210B: BOD					Analys	st: SMS
Biochemical Oxygen Demand	590	2.0	mg/L	1 3/24/2014	9:23:00 AM	12245

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- P Sample pH greater than 2.
- RL Reporting Detection Limit

1		

#### **Analytical Report**

Lab Order 1403778

Date Reported: 3/27/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rocking V Water Service

Project: Edgewood WWTP

Lab ID: 1403778-001 Client Sample ID: Effluent

Collection Date: 3/18/2014 12:30:00 PM

Matrix: AQUEOUS Received Date: 3/18/2014 1:37:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Analy	yst: SMS
Biochemical Oxygen Demand	58	2.0	mg/L	1	3/24/2014 9:23:00 A	M 12245

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
  - Page 1 of 3 Sample pH greater than 2.

P

Reporting Detection Limit

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#### **Analytical Report**

Lab Order 1402394

Date Reported: 2/20/2014

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Project: Edgewood WWTP

**Lab ID:** 1402394-001

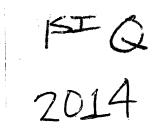
Client Sample ID: Effluent

Collection Date: 2/11/2014 10:45:00 AM

Received Date: 2/11/2014 12:35:00 PM

Analyses	Result	RL (	Qual 1	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				<del>-</del>	<del>""</del>	Analys	: JRR
Nitrogen, Nitrate (As N)	1.4	0.50		mg/L	5	2/11/2014 8:40:28 PM	R16694
EPA METHOD 200.7: DISSOLVED	METALS					Analys	: JLF
Calcium	<sup>-</sup> 190	5.0		mg/L	5	2/12/2014 2:51:39 PM	R16708
Magnesium	<sub>~</sub> 29	1.0		mg/L	1	2/12/2014 2:49:45 PM	R16708
SM2340B: HARDNESS	,					Analyst	: JLF
Hardness (As CaCO3)	600	6.6		mg/L	1	2/12/2014 12:25:00 PM	
SM4500-H+B: PH (				J		Analyst	
pH	7.98	1.68	н	pH units	1	2/11/2014 7:25:19 PM	R16704
SM2320B: ALKALINITY						Analyst	: JML
Bicarbonate (As CaCO3)	500	20		mg/L CaCO3	1	2/11/2014 7:25:19 PM	R16704
Carbonate (As CaCO3)	ND	2.0	ı	mg/L CaCO3	1	2/11/2014 7:25:19 PM	R16704
Total Alkalinity (as CaCO3)	500	20	1	mg/L CaCO3	1	2/11/2014 7:25:19 PM	R16704
SM 4500 NORG C: TKN						Analyst	TMG
Nitrogen, Kjeldahl, Total	<sub>2</sub> 1.1	1.0	r	mg/L	1	2/19/2014 6:10:00 AM	11780

Matrix: AQUEOUS



### Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit



### Hall Environmental Analysis Laboratory, Inc.

WO#:

1402394

20-Feb-14

Client:

Rocking V Water Service

Project:

**Edgewood WWTP** 

Sample ID LCS

SampType: LCS

TestCode: EPA Method 200.7: Dissolved Metals

Client ID: LCSW

Batch ID: R16708

RunNo: 16708

%RPD

%RPD

**RPDLimit** 

115

Prep Date:

Analysis Date: 2/12/2014

SeqNo: 480871

Units: mg/L

Analyte Calcium

Result PQL SPK value SPK Ref Val

%REC

HighLimit

**RPDLimit** Qual

Qual

50 1.0 50.00 0 99.4 Magnesium 50 1.0 50.00 0 101

85 115

85

85

LowLimit

Sample ID LCS Client ID:

LCSW

SampType: LCS Batch ID: R16708

1.0

RunNo: 16708

99.6

TestCode: EPA Method 200.7: Dissolved Metals

Prep Date:

Magnesium

Analysis Date: 2/12/2014

50

SeqNo: 480873

0

Units: mg/L

115

Analyte Result PQL SPK value SPK Ref Val %REC HighLimit LowLimit Calcium 49 1.0 50.00 98.6 85 115

50.00

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits ĵ
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RLReporting Detection Limit

Page 2 of 6



## Hall Environmental Analysis Laboratory, Inc.

WO#: 1402394

20-Feb-14

Client:

Rocking V Water Service

Project:

Edgewood WWTP

Sample ID A5

SampType: CCV\_5

Client ID: **BatchQC** 

Batch ID: R16694

**PQL** 

0.10

TestCode: EPA Method 300.0: Anions

RunNo: 16694

%REC

Prep Date: Analysis Date: 2/11/2014 SeqNo: 480596

Units: mg/L

110

Analyte

Result

SPK value SPK Ref Val 4.800

100

HighLimit

**RPDLimit** 

Qual

Nitrogen, Nitrate (As N)

SampType: MBLK

TestCode: EPA Method 300.0: Anions

90

LowLimit

Sample ID MB Client ID: **PBW** 

Batch ID: R16694

RunNo: 16694 SeqNo: 480598

Units: mg/L

Prep Date: Analyte

Result

Analysis Date: 2/11/2014 **PQL** 

SPK value SPK Ref Val %REC LowLimit

**HighLimit** 

%RPD

%RPD

Qual

ND 0.10

TestCode: EPA Method 300.0: Anions

**RPDLimit** 

Nitrogen, Nitrate (As N) Sample ID LCS

SampType: LCS Batch ID: R16694

Analysis Date: 2/11/2014

0.10

RunNo: 16694

Units: mg/L

110

Prep Date: Analyte

Client ID:

Result 2.6

**PQL** SPK value SPK Ref Val

2.500

SeqNo: 480599 %REC 103

HighLimit

**RPDLimit** 

%RPD

Qual

Nitrogen, Nitrate (As N)

Sample ID A6 **BatchQC** 

LCSW

SampType: CCV\_6 Batch ID: R16694

Analysis Date: 2/11/2014

TestCode: EPA Method 300.0: Anions

RunNo: 16694

LowLimit

Units: mg/L

Analyte

Result 7.5

SPK value SPK Ref Val

SPK value SPK Ref Val

4.800

SeqNo: 480607 %REC

LowLimit

Nitrogen, Nitrate (As N)

Prep Date:

Client ID:

Prep Date:

0.10

7.200

0

104

HighLimit 90

%RPD

**RPDLimit** 

Qual

Qual

Sample ID A5 Client ID:

BatchQC

SampType: CCV\_5 Batch ID: R16694

Analysis Date: 2/11/2014

**PQL** 

RunNo: 16694

SeqNo: 480619

LowLimit

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

**HighLimit** 

110

110

Units: mg/L

%RPD

Analyte

Nitrogen, Nitrate (As N)

Nitrogen, Nitrate (As N)

4.8 0.10 100

90

Sample ID A6 Client ID:

**BatchQC** 

SampType: CCV\_6 Batch ID: R16694

Analysis Date: 2/11/2014

RunNo: 16694

SegNo: 480631

%REC

Units: mg/L

**RPDLimit** 

Analyte

Prep Date:

Result 7.8

Result

SPK value SPK Ref Val PQL 0.10 7.200

%REC 108

LowLimit 90 HighLimit

110

%RPD

**RPDLimit** Qual

0

S

- Qualifiers: Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

RSD is greater than RSDlimit R RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit P Sample pH greater than 2.
- RLReporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#:

1402394

20-Feb-14

Client:

Rocking V Water Service

Project:

Edgewood WWTP

Sample ID A5

SampType: CCV\_5

TestCode: EPA Method 300.0: Anions

Client ID: **BatchQC** 

Batch ID: R16694

RunNo: 16694

%REC

Prep Date:

Analysis Date: 2/11/2014

SeqNo: 480643

Analyte

Result

7.6

**PQL** SPK value SPK Ref Val

Units: mg/L HighLimit

110

**RPDLimit** %RPD

Qual

Nitrogen, Nitrate (As N)

4.8

0.10 4.800

99.9

Sample ID A6 Client ID:

**BatchQC** 

**BatchQC** 

Batch ID: R16694

SampType: CCV\_6

RunNo: 16694

TestCode: EPA Method 300.0: Anions

LowLimit

LowLimit

106

90

Units: mg/L

110

Analyte

Prep Date: Analysis Date: 2/11/2014 Result

SeqNo: 480653 SPK value SPK Ref Val %REC 0

HighLimit LowLimit

90

%RPD **RPDLimit** 

Qual

Nitrogen, Nitrate (As N) Sample ID A4

Client ID:

Prep Date:

SampType: CCV\_4 Batch ID: R16694

PQL

0.10

TestCode: EPA Method 300.0: Anions

RunNo: 16694

SeqNo: 480662

Units: mg/L

%RPD

Qual

Analyte

Analysis Date: 2/11/2014 Result

SPK value SPK Ref Val

%REC 0

90

**RPDLimit** 

Nitrogen, Nitrate (As N)

2.9

0.10 3.000

7,200

95.8

HighLimit 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded ND
- Not Detected at the Reporting Limit р Sample pH greater than 2.
- Reporting Detection Limit RL

Page 4 of 6



## Hall Environmental Analysis Laboratory, Inc.

WO#:

1402394

20-Feb-14

Client:

Rocking V Water Service

**Project:** 

**Edgewood WWTP** 

Sample ID mb-1

SampType: mblk

TestCode: SM2320B: Alkalinity

Client ID:

Batch ID: R16704

RunNo: 16704

Analysis Date: 2/11/2014

Batch ID: R16704

Units: mg/L CaCO3

Analyte

SeqNo: 480818

Prep Date:

Result **PQL** 

SPK value SPK Ref Val %REC LowLimit

Qual

Total Alkalinity (as CaCO3)

ND 20

TestCode: SM2320B: Alkalinity

Sample ID ics-1 Client ID: LCSW SampType: Ics

RunNo: 16704 SeqNo: 480819

Units: mg/L CaCO3

HighLimit

%RPD

%RPD

Prep Date: Analyte

Analysis Date: 2/11/2014 Result

**PQL** 

SPK value SPK Ref Val %REC

HighLimit

LowLimit

**RPDLimit** 

**RPDLimit** 

Qual

Total Alkalinity (as CaCO3)

79

110

Page 5 of 6

20 80.00 98.8 90

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

- Н Holding times for preparation or analysis exceeded
- ND
- RLReporting Detection Limit

В

P Sample pH greater than 2.

Not Detected at the Reporting Limit

Analyte detected in the associated Method Blank



# Hall Environmental Analysis Laboratory, Inc.

WO#:

1402394

20-Feb-14

Client:

Rocking V Water Service

**Project:** 

Edgewood WWTP

Sample ID MB-11780

SampType: MBLK

TestCode: SM 4500 Norg C: TKN

Client ID:

Batch ID: 11780

RunNo: 16831

1.0

1.0

Prep Date: 2/18/2014

Analysis Date: 2/19/2014

SeqNo: 484632

Units: mg/L

Analyte

Result

**PQL** ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**  Qual

Nitrogen, Kjeldahl, Total

Sample ID LCS-11780

SampType: LCS

TestCode: SM 4500 Norg C: TKN

RunNo: 16831

Prep Date: 2/18/2014

Client ID: LCSW

Batch ID: 11780 Analysis Date: 2/19/2014

SeqNo: 484633

Units: mg/L

PQL SPK value SPK Ref Val

%REC

HighLimit 80

%RPD

Result

10.00

120

**RPDLimit** 

Nitrogen, Kjeldahl, Total

10

0

102

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2.

RLReporting Detection Limit Page 6 of 6



tiau Bhvironmeniai Anaiysis Lavoraiory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name: Rocking V Water Work Order Number: 1402394 RoptNo: 1 Received by/date: Logged By: Michelle Garcia 2/11/2014 12:35:00 PM Completed By: Michelle Garcia 2/11/201)4 2:24:45 PM Reviewed By: Chain of Custody No 🗌 Yes 🗌 Not Present 1. Custody seals intact on sample bottles? Yes 🗸 No 🗆 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log in NA 🗆 4. Was an attempt made to cool the samples? No 🗆 Yes 🗹 No 🗹 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Samples were collected the same day and chilled, No 🗌 Sample(s) in proper container(s)? Yes 🔽 7. Sufficient sample volume for indicated test(s)? Yes 🗹 No 🖺 8. Are samples (except VOA and ONG) properly preserved? No V 9. Was preservative added to bottles? Yes 🔽 hardness: Poured from 500ml lungres Into a 125 % No 🗌 10.VOA vials have zero headspace? Yes 🗌 Yes No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: 12. Does paperwork match bottle labels? Yes 🗸 or >12 unless poted) (Note discrepancies on chain of custody) No 🗆 Adjusted2 13. Are matrices correctly identified on Chain of Custody? Yes 🗹 Yes 🗸 No 🗌 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Checked by: Yes V No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 16. Was client notified of all discrepancies with this order? No 🗌 NA 🗹 **Person Notified:** Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information ( Corellion : Seal intact: Seal No. L. Seal Date: 12 Sloned EV. S. 14.9 Good Not Present



	HALL ENVIRONMENTAL	MARITOLS LABORALORY	- Africiamie NA 87100	F Cov FOR 24E 4407	Analysis Request	(*)	os'	рΟ	10s2	1/2 5: (\bullet 9/2 \bullet 1/2 \bullet 1/2	sis NOV Set	H's (8310 CRA 8 Met nions (F,Cl, 081 Pesticic 700 (Semi-) 700 (Semi-) 700 (Semi-) 700 (Semi-) 700 (Semi-) 700 (Semi-) 700 (Semi-)	88 3	ベイメ										a will be clearly notated on the analytical report
			4901 Hawkins NE -	Tel 505-345-3075	10-040-000 IB-	(VI	uo s	.sə)	1) Hd. (P	T + O?	1 t	TEX + MTE TEX + MTE PH 8015B PH (Method	1 3									Remarks:		this possibility. Any sub-contracted
ב וצום.	rd 🗆 Rush		Edgewood WWTP		726-1654	nager:		e I romas	D. Thomas	JAKES TO UNO TO SELECT	mperature: 14.9	Preservative HEAL No		3		.:						Pate Time	Daid 7 This	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
ומווי-איטשוע וווופי	Standard	Project Name:	<u> </u>	Project #:	Ā	Project Manager:	6	UMUR	Sampler:	On Ice:	Sample Zemperature	Container Type and #									9	Received by:	Received by:	
Chain-of-Custody Record	Client: ROCKING V Washer	o would	Valley Rd	११०।ऽ		クロナー182		☐ Level 4 (Full Validation)		e l		Sample Request ID	effleunt									Homo	led by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other
n-ot-C	KING	Edge warm	ss: 22	Edgewood	ود		ö		Ç			Mafrix	5 48										Relinquished by:	y, samples sub
Chai	ROC	2dg	ng Addre	da	O # 6	email or Fax#:	AA/QC Package:	Standard	Accreditation	ב ב	☐ EDD (Type)	Time	11/14/10:45						_	1	ļ	47.25	Time:	lf necessar,
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 20, 2014

Dave Thomas Rocking V Water Service 22 Valley Rd Edgewood, NM 87015

TEL: (505) 681-1121 FAX (505) 281-4106

RE: Edgewood WWTP

OrderNo.: 1402394

#### Dear Dave Thomas:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/11/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andiel

4901 Hawkins NE

Albuquerque, NM 87109

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